

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 December 2005 (15.12.2005)

PCT

(10) International Publication Number
WO 2005/118719 A2

(51) International Patent Classification⁷: **C08L 67/03**

(21) International Application Number:
PCT/US2004/040827

(22) International Filing Date: 6 December 2004 (06.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/527,357 4 December 2003 (04.12.2003) US

(71) Applicant (for all designated States except US):
CARGILL, INCORPORATED [US/US]; Law Department, P.O. Box 5624, Minneapolis, MN 55440-5624 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LIAO, Hans, H.** [US/US]; 8130 Spruce Trail, Eden Prairie, MN 55347 (US). **GOKARN, Ravi, R.** [IN/US]; 5600 Blaisdell Avenue, Minneapolis, MN 55419 (US). **GORT, Steven, John** [US/US]; 3207 Quarles Road, Brooklyn Center, MN 55429 (US). **JESSEN, Holly, Jean** [US/US]; 6618 Brenden Court, Chanhassen, MN 55317 (US). **SELIFONOVA, Olga, V.** [RU/US]; 4625 Merrimac Lane N., Plymouth, MN 55446 (US).

(74) Agent: **PRIBNOW, Scott**; Cargill, Incorporated, Law Department, P.O. Box 5624, Minneapolis, MN 55440-5624 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

- without international search report and to be republished upon receipt of that report
- with (an) indication(s) in relation to deposited biological material furnished under Rule 13bis separately from the description

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PRODUCTION OF 3-HYDROXYPROPIONIC ACID USING BETA-ALANINE/PYRUVATE AMINOTRANSFERASE

(57) Abstract: Methods of using beta-alanine/pyruvate aminotransferase to produce 3-hydroxypropionic acid and derivatives thereof, from beta-alanine, are disclosed. Cells and recombinant nucleic acids that can be used to practice the methods are also disclosed.

WO 2005/118719 A2